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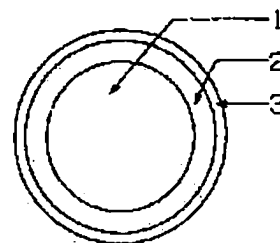
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(54) SELF-FUSIBLE INSULATIVE ELECTRIC WIRE AND COIL USING THE SAME

(57)Abstract:

PURPOSE: To provide a thin fusible layer which is foamed at a predetermined low temperature and enhanced in fusing strength and space factor by forming the fusible layer including a foaming agent and a foaming assistant on the metal conductor via an insulative layer.

CONSTITUTION: An insulative layer 2 is formed on a metal conductor 1, and a fusible layer 3 including a foaming agent and a foaming assistant is formed on the layer 2. Such a foaming agent as to be dissolved with application of heat and generate nitrogen gas or carbon dioxide gas is used as the foaming agent to be included, and an azo, nitroso or hydrazide foaming agent is used as an organic foaming agent. A vulcanization accelerator capable of promoting thermal decomposition of the foaming agent, a PVC stabilizer or the like is used as the foaming assistant. Each predetermined quantity of the foaming agent and foaming assistant is dissolved or dispersed in a solution of a fusible resin, thus forming a fusible coating material, which is applied and baked on the layer 2, followed by energization heating or hot-air drying, for foaming the layer 3. Consequently, the fusible layer is foamed at a predetermined low temperature for thinness, thus enhancing fusing strength and a space factor of the conductor.



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